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(54) Title: REMOTE WIRELESS MONITORING, PROCESSING, AND COMMUNICATION OF PATIENT DATA

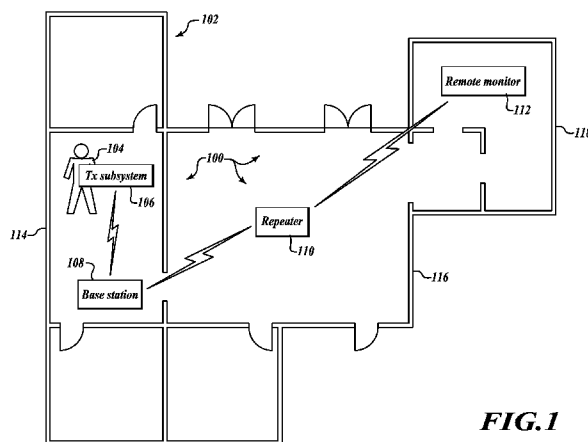


FIG. 1

(57) Abstract: A remote wireless monitoring system (100) for patient data, and an ambulatory system (902) for processing and transmitting physiological characteristic data are provided. An embodiment of a system (100) for remote wireless monitoring of data for a patient includes an ambulatory sensor/transmitter subsystem (106) that wirelessly transmits measured values of a physiological characteristic of the patient (104), a base station (108) that wirelessly receives signals from the sensor/transmitter subsystem (106), and a remote monitor (112) that wirelessly receives signals from the base station (108). The remote monitor (112) is configured to generate audio and/or visual indicia (representing alarms, the measured values, device or system status information, etc.) in response to the base station signals. An embodiment of an ambulatory system (902) includes a physiological characteristic sensor (910), a self-contained sensor processor module (912) coupled to the ambulatory physiological characteristic sensor (910), and an ambulatory data receiver device (914) coupled to the self-contained sensor processor module (912).

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/32098 A (NOKIA CORP [FI]; NOKIA INC [US]) 18 April 2002 (2002-04-18) pages 3-14 figures 1-4	1-5,7-9
X	US 2006/001550 A1 (MANN ALFRED E [US] ET AL) 5 January 2006 (2006-01-05) paragraphs [0006] - [0010] paragraphs [0027] - [0029] figures 1,2,13,14	1-9
X	US 2004/117204 A1 (MAZAR SCOTT T [US] ET AL MAZAR SCOTT T [US] ET AL) 17 June 2004 (2004-06-17) paragraphs [0005] - [0007] paragraphs [0020] - [0035] paragraphs [0094] - [0107]; figures 1,5-7	1-5,7-9

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
E earlier document but published on or after the international filing date	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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O document referring to an oral disclosure, use, exhibition or other means	*&* document member of the same patent family
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 27 February 2009	Date of mailing of the international search report 22/06/2009
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Abraham, Volkhard
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International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/024322 A (MENARD RAYMOND J [US]) 27 March 2003 (2003-03-27) page 4, paragraph 3 - page 20, paragraph 2 figures 1-4 -----	1-5,7-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/081471

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see annex

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

A system for remote wireless monitoring comprising.
an ambulatory sensor/transmitter subsystem,
a base station,
a remote monitor.

2. claims: 10-13

A wireless repeater

3. claims: 14-20

An ambulatory system comprising:
an ambulatory physiological characteristic sensor,
a self contained sensor processor module;
an ambulatory telemetry device.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/081471

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
WO 0232098	A	18-04-2002	AU 8798201 A	22-04-2002
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WO 03024322	A	27-03-2003	NONE	